



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

09/674,379

Source:

PG/09

Date Processed by STIC:

4/25/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).

Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/674,379

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 _____ Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 _____ Wrapped Aminos The amino acid number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 _____ Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 _____ Misaligned Amino Acid Numbering The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 _____ Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 _____ Variable Length Sequence(s) _____ contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.
- 7 _____ PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 8 _____ Skipped Sequences (OLD RULES) Sequence(s) _____ missing. If intentional, please use the following format for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X:
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 _____ Skipped Sequences (NEW RULES) Sequence(s) _____ missing. If intentional, please use the following format for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 10 _____ Use of n's or Xaa's (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 _____ Use of "Artificial" (NEW RULES) Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules.
Valid response is Artificial Sequence.
- 12 _____ Use of <220>Feature (NEW RULES) Sequence(s) _____ are missing the <220>Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial Sequence" or "Unknown"
Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 _____ PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

PCT

RAW SEQUENCE LISTING

DATE: 04/25/2001

PATENT APPLICATION: US/09/674,379

TIME: 07:41:15

Input Set : A:\es.txt

Output Set: N:\CRF3\04252001\I674379.raw

Does Not Comply
Corrected Diskette Needed
see pp. 4, 6

3 <110> APPLICANT: Ono Pharmaceutical Co., Ltd.
 5 <120> TITLE OF INVENTION: A novel polypeptide, a cDNA encoding the polypeptide
 6 and utilization thereof
 8 <130> FILE REFERENCE: Q61531
 10 <140> CURRENT APPLICATION NUMBER: US/09/674,379
 11 <141> CURRENT FILING DATE: 2000-10-30
 13 <150> PRIOR APPLICATION NUMBER: PCT/JP99/02284
 14 <151> PRIOR FILING DATE: 1999-04-28
 16 <150> PRIOR APPLICATION NUMBER: JP HEI 10-119731
 17 <151> PRIOR FILING DATE: 1998-04-28
 19 <160> NUMBER OF SEQ ID NOS: 17
 21 <170> SOFTWARE: PatentIn Ver. 2.1
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 1344
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Mus musculus
 28 <400> SEQUENCE: 1
 29 atgccaggat taaaaaggat actcactggt accatcttgg cactctggct tccacatcct 60
 30 gggaatgcac agcagcagtg cacaaacggc tttagacctg accgccagtc aggacagtgt 120
 31 ctatgatattg atgaatgccg gaccatccct gaggcttgct gtggggacat gatgtgtgtc 180
 32 aaccagaatg gcgggtatgt gtgcacccct cgaaccaacc cagtgtatcg agggccttac 240
 33 tcaaatccct actctacatc ctactcaggc ccatacccag cagcggcccc accagtacca 300
 34 gcttccaact accccaacgat ttcaaggcct cttgtctgcc gctttgggta tcagatggat 360
 35 gaaggcaacc agtgtgtgga tgtggacgag tgtgcaacag actcacacca gtgcaaccct 420
 36 acccagatct gtatcaaacac tgaaggaggt tacacctgct cctgcaccga tgggtactgg 480
 37 cttctggaag ggcagtgccct agatattgat gaatgtcgct atggttactg ccagcagctc 540
 38 tgtgcaaagt ttccaggatc ctattcctgt acatgcaacc ctggtttcac cctcaacgac 600
 39 gatggaaggt cttgccaaga tgtgaacgag tgcgaaactg agaatccctg tgttcagacc 660
 40 tgtgtcaaca cctatggctc ttcatctgct cgctgtgacc caggatatga acttgaggaa 720
 41 gatggcattc actgcagtga tatggacgag tgcagcttct ccgagttcct ctgtcaacac 780
 42 gagtgtgtga accagccggg ctcatatttc tgctcgtgcc ctccaggcta cgtcctgttg 840
 43 gatgataacc gaagctgccg ggatatcaat gaatgtgagc accgaaacca cacgtgtacc 900
 44 tcaactgcaga cttgtacaaa tctacaaggg ggcttcaaat gtattgatcc catcagctgt 960
 45 gaggagcctt atctgctgat tgggtgaaaac cgctgtatgt gtccctgctga gcacaccagc 1020
 46 tgcagagacc agccattcac catcctgtat cgggacatgg atgtggtgtc aggacgctcc 1080
 47 gttcctgctg acatcttcca gatgcaagca acaaccgat accctggtgc ctattacatt 1140
 48 ttccagatca aatctggcaa cgagggtcga gagttctata tgcggcaaac agggcctatc 1200
 49 agtgccaccc tgggtgatgac acgccccatc aaagggcctc gggacatcca gctggacttg 1260
 50 gagatgatca ctgtcaaacac tgtcatcaac ttcagaggca gctccgtgat ccgactgcgg 1320
 51 atatatgtgt cgcagtatcc gttc 1344
 54 <210> SEQ ID NO: 2
 55 <211> LENGTH: 2233
 56 <212> TYPE: DNA
 57 <213> ORGANISM: Mus musculus
 59 <220> FEATURE:
 60 <223> OTHER INFORMATION: Clone mouse A55 derived from Day 13 mouse
 61 embryonic heart

RAW SEQUENCE LISTING

DATE: 04/25/2001

PATENT APPLICATION: US/09/674,379

TIME: 07:41:15

Input Set : A:\es.txt

Output Set: N:\CRF3\04252001\I674379.raw

```

63 <220> FEATURE:
64 <221> NAME/KEY: CDS
65 <222> LOCATION: (75)..(1418)
67 <220> FEATURE:
68 <221> NAME/KEY: sig_peptide
69 <222> LOCATION: (75)..(143)
71 <220> FEATURE:
72 <221> NAME/KEY: mat_peptide
73 <222> LOCATION: (144)..(1418)
75 <400> SEQUENCE: 2
76 aattcggcac gagccccagt cccaccgcag agcctgcctt cctcgcgtcg cttctcctcc 60
77 cgcgcatctt ggat atg cca gga tta aaa agg ata ctc act gtt acc atc 110
78 Met Pro Gly Leu Lys Arg Ile Leu Thr Val Thr Ile
79 -20 -15
80
81 ttg gca ctc tgg ctt cca cat cct ggg aat gca cag cag tgc aca 158
82 Leu Ala Leu Trp Leu Pro His Pro Gly Asn Ala Gln Gln Cys Thr
83 -10 -5 -1 1 5
84
85 aac ggc ttt gac ctg gac cgc cag tca gga cag tgt cta gat att gat 206
86 Asn Gly Phe Asp Leu Asp Arg Gln Ser Gly Gln Cys Leu Asp Ile Asp
87 10 15 20
88
89 gaa tgc cgg acc atc cct gag gct tgt cgt ggg gac atg atg tgt gtc 254
90 Glu Cys Arg Thr Ile Pro Glu Ala Cys Arg Gly Asp Met Met Cys Val
91 25 30 35
92
93 aac cag aat ggc ggg tat ttg tgc atc cct cga acc aac cca gtg tat 302
94 Asn Gln Asn Gly Gly Tyr Leu Cys Ile Pro Arg Thr Asn Pro Val Tyr
95 40 45 50
96
97 cga ggg cct tac tca aat ccc tac tct aca tcc tac tca ggc cca tac 350
98 Arg Gly Pro Tyr Ser Asn Pro Tyr Ser Thr Ser Tyr Ser Gly Pro Tyr
99 55 60 65
100
101 cca gca gcg gcc cca cca gta cca gct tcc aac tac ccc acg att tca 398
102 Pro Ala Ala Ala Pro Pro Val Pro Ala Ser Asn Tyr Pro Thr Ile Ser
103 70 75 80 85
104
105 agg cct ctt gtc tgc cgc ttt ggg tat cag atg gat gaa ggc aac cag 446
106 Arg Pro Leu Val Cys Arg Phe Gly Tyr Gln Met Asp Glu Gly Asn Gln
107 90 95 100
108
109 tgt gtg gat gtg gac gag tgt gca aca gac tca cac cag tgc aac cct 494
110 Cys Val Asp Val Asp Glu Cys Ala Thr Asp Ser His Gln Cys Asn Pro
111 105 110 115
112
113 acc cag atc tgt atc aac act gaa gga ggt tac acc tgc tcc tgc acc 542
114 Thr Gln Ile Cys Ile Asn Thr Glu Gly Gly Tyr Thr Cys Ser Cys Thr
115 120 125 130
116
117 gat ggg tac tgg ctt ctg gaa ggg cag tgc cta gat att gat gaa tgt 590
118 Asp Gly Tyr Trp Leu Leu Glu Gly Gln Cys Leu Asp Ile Asp Glu Cys
119 135 140 145
120
121 cgc tat ggt tac tgc cag cag ctc tgt gca aat gtt cca gga tcc tat 638
122 Arg Tyr Gly Tyr Cys Gln Gln Leu Cys Ala Asn Val Pro Gly Ser Tyr
123 150 155 160 165
124
125 tcc tgt aca tgc aac cct ggt ttc acc ctc aac gac gat gga agg tct 686
126 Ser Cys Thr Cys Asn Pro Gly Phe Thr Leu Asn Asp Asp Gly Arg Ser

```

RAW SEQUENCE LISTING

.. DATE: 04/25/2001

PATENT APPLICATION: US/09/674,379

TIME: 07:41:15

Input Set : A:\es.txt

Output Set: N:\CRF3\04252001\I674379.raw

128		170		175		180	
130	tgc caa gat	gtg aac gag	tgc gaa act	gag aat ccc	tgt gtt cag	acc	734
131	Cys Gln Asp	Val Asn Glu	Cys Glu Thr	Glu Asn Pro	Cys Val Gln	Thr	
132		185		190		195	
134	tgt gtc aac	acc tat ggc	tct ttc atc	tgc cgc tgt	gac cca gga	tat	782
135	Cys Val Asn	Thr Tyr Gly	Ser Phe Ile	Cys Arg Cys	Asp Pro Gly	Tyr	
136		200		205		210	
138	gaa ctt gag	gaa gat ggc	att cac tgc	agt gat atg	gac gag tgc	agc	830
139	Glu Leu Glu	Glu Asp Gly	Ile His Cys	Ser Asp Met	Asp Glu Cys	Ser	
140		215		220		225	
142	ttc tcc gag	ttc ctc tgt	caa cac gag	tgt gtg aac	cag ccg ggc	tca	878
143	Phe Ser Glu	Phe Leu Cys	Gln His Glu	Cys Val Asn	Gln Pro Gly	Ser	
144	230		235		240	245	
146	tac ttc tgc	tcg tgc cct	cca ggc tac	gtc ctg ttg	gat gat aac	cga	926
147	Tyr Phe Cys	Ser Cys Pro	Pro Gly Tyr	Val Leu Leu	Asp Asp Asn	Arg	
148		250		255		260	
150	agc tgc cag	gat atc aat	gaa tgt gag	cac cga aac	cac acg tgt	acc	974
151	Ser Cys Gln	Asp Ile Asn	Glu Cys Glu	His Arg Asn	His Thr Cys	Thr	
152		265		270		275	
154	tca ctg cag	act tgc tac	aat cta caa	ggg ggc ttc	aaa tgt att	gat	1022
155	Ser Leu Gln	Thr Cys Tyr	Asn Leu Gln	Gly Gly Phe	Lys Cys Ile	Asp	
156		280		285		290	
158	ccc atc agc	tgt gag gag	cct tat ctg	ctg att ggt	gaa aac cgc	tgt	1070
159	Pro Ile Ser	Cys Glu Glu	Pro Tyr Leu	Leu Ile Gly	Glu Asn Arg	Cys	
160		295		300		305	
162	atg tgt cct	gct gag cac	acc agc tgc	aga gac cag	cca ttc acc	atc	1118
163	Met Cys Pro	Ala Glu His	Thr Ser Cys	Arg Asp Gln	Pro Phe Thr	Ile	
164	310		315		320	325	
166	ctg tat cgg	gac atg gat	gtg gtg tca	gga cgc tcc	gtt cct gct	gac	1166
167	Leu Tyr Arg	Asp Met Asp	Val Val Ser	Gly Arg Ser	Val Pro Ala	Asp	
168		330		335		340	
170	atc ttc cag	atg caa gca	aca acc cga	tac cct ggt	gcc tat tac	att	1214
171	Ile Phe Gln	Met Gln Ala	Thr Thr Arg	Tyr Pro Gly	Ala Tyr Tyr	Ile	
172		345		350		355	
174	ttc cag atc	aaa tct ggc	aac gag ggt	cga gag ttc	tat atg cgg	caa	1262
175	Phe Gln Ile	Lys Ser Gly	Asn Glu Gly	Arg Glu Phe	Tyr Met Arg	Gln	
176		360		365		370	
178	aca ggg cct	atc agt gcc	acc ctg gtg	atg aca cgc	ccc atc aaa	ggg	1310
179	Thr Gly Pro	Ile Ser Ala	Thr Leu Val	Met Thr Arg	Pro Ile Lys	Gly	
180		375		380		385	
182	cct cgg gac	atc cag ctg	gac ttg gag	atg atc act	gtc aac act	gtc	1358
183	Pro Arg Asp	Ile Gln Leu	Asp Leu Glu	Met Ile Thr	Val Asn Thr	Val	
184	390		395		400	405	
186	atc aac ttc	aga ggc agc	tcc gtg atc	cga ctg cgg	ata tat gtg	tcg	1406
187	Ile Asn Phe	Arg Gly Ser	Ser Val Ile	Arg Leu Arg	Ile Tyr Val	Ser	
188		410		415		420	
190	cag tat ccg	ttc tgagcctctg	gctaaggcct	ctgacactgc	ctttcaccag		1458
191	Gln Tyr Pro	Phe					
192		425					

RAW SEQUENCE LISTING

DATE: 04/25/2001

PATENT APPLICATION: US/09/674,379

TIME: 07:41:15

Input Set : A:\es.txt

Output Set: N:\CRF3\04252001\I674379.raw

194 caccgagggga cgaggaggaga aaggaaacca gcaagaatga gagcgagaca gacattgcac 1518
 196 ctttcctgct gaatatctcc tgggggcac agcctagcat cttgacccat atctgtacta 1578
 198 ttgcagatgg tcaactctgaa ggacaccctg ccctcagttc ctatgatgca gttatccaaa 1638
 200 agtggttcac ttagcccctg atatgagggt gccagtgact cttcaaagcc ttccatttat 1698
 202 ttccatcggt ttataaaaaa gaaaatagat tagatttgct ggggtatgag tccctgaagg 1758
 204 ttcaaagac tgagtggctt gctctcacct cttcctctcc ttctccatc tcttgctgca 1818
 206 ttgctgcttt gcaaaagtcc tcatgggctc gtgggaaatg ctgggaatag ctagtttgct 1878
 208 tcttgcatgt tctgagaagg ctatgggaac acaccacagc aggatcgaag gtttttatag 1938
 210 agtctatattt aaaatcacat ctggtatttt cagcataaaa gaaatttttag ttgtctttaa 1998
 212 aatttgatg agtgtttaac cttttcttat tcattttgag gctttctaaa gtggtagaat 2058
 214 tccttccaaa ggcctcagat acatgttatg ttcagttctt ~~ccaacctcat cctttcctgc~~ 2118
 W--> 216 ~~atcttagccc agtttttacg aagacccctt aatcatgctt~~ ~~taagagt~~ ttttacccaa 2178
 218 ctgcgttgga agacagaggt atccagactg attaaataat tgaagaaaaa aaaaa 2233
 221 <210> SEQ ID NO: 3
 222 <211> LENGTH: 448
 223 <212> TYPE: PRT
 224 <213> ORGANISM: Mus musculus
 225 <223> OTHER INFORMATION: Clone mouse A55 derived from Day 13 mouse
 228 <400> SEQUENCE: 3
 229 Met Pro Gly Leu Lys Arg Ile Leu Thr Val Thr Ile Leu Ala Leu Trp
 230 -20 -15 -10
 232 Leu Pro His Pro Gly Asn Ala Gln Gln Gln Cys Thr Asn Gly Phe Asp
 233 -5 -1 1 5
 235 Leu Asp Arg Gln Ser Gly Gln Cys Leu Asp Ile Asp Glu Cys Arg Thr
 236 10 15 20 25
 238 Ile Pro Glu Ala Cys Arg Gly Asp Met Met Cys Val Asn Gln Asn Gly
 239 30 35 40
 241 Gly Tyr Leu Cys Ile Pro Arg Thr Asn Pro Val Tyr Arg Gly Pro Tyr
 242 45 50 55
 244 Ser Asn Pro Tyr Ser Thr Ser Tyr Ser Gly Pro Tyr Pro Ala Ala Ala
 245 60 65 70
 247 Pro Pro Val Pro Ala Ser Asn Tyr Pro Thr Ile Ser Arg Pro Leu Val
 248 75 80 85
 250 Cys Arg Phe Gly Tyr Gln Met Asp Glu Gly Asn Gln Cys Val Asp Val
 251 90 95 100 105
 253 Asp Glu Cys Ala Thr Asp Ser His Gln Cys Asn Pro Thr Gln Ile Cys
 254 110 115 120
 256 Ile Asn Thr Glu Gly Gly Tyr Thr Cys Ser Cys Thr Asp Gly Tyr Trp
 257 125 130 135
 259 Leu Leu Glu Gly Gln Cys Leu Asp Ile Asp Glu Cys Arg Tyr Gly Tyr
 260 140 145 150
 262 Cys Gln Gln Leu Cys Ala Asn Val Pro Gly Ser Tyr Ser Cys Thr Cys
 263 155 160 165
 265 Asn Pro Gly Phe Thr Leu Asn Asp Asp Gly Arg Ser Cys Gln Asp Val
 266 170 175 180 185
 268 Asn Glu Cys Glu Thr Glu Asn Pro Cys Val Gln Thr Cys Val Asn Thr
 269 190 195 200
 271 Tyr Gly Ser Phe Ile Cys Arg Cys Asp Pro Gly Tyr Glu Leu Glu Glu
 272 205 210 215

(see
Error
summary sheet)(see
item 10 on
Sheet)

insert the MANDATORY
 (220) numeric identifier whenever (2217, 2227 or
 2237 is
 shown

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/674,379

DATE: 04/25/2001

TIME: 07:41:15

Input Set : A:\es.txt

Output Set: N:\CRF3\04252001\I674379.raw

```

274 Asp Gly Ile His Cys Ser Asp Met Asp Glu Cys Ser Phe Ser Glu Phe
275      220      225      230
277 Leu Cys Gln His Glu Cys Val Asn Gln Pro Gly Ser Tyr Phe Cys Ser
278      235      240      245
280 Cys Pro Pro Gly Tyr Val Leu Leu Asp Asp Asn Arg Ser Cys Gln Asp
281 250      255      260      265
283 Ile Asn Glu Cys Glu His Arg Asn His Thr Cys Thr Ser Leu Gln Thr
284      270      275      280
286 Cys Tyr Asn Leu Gln Gly Gly Phe Lys Cys Ile Asp Pro Ile Ser Cys
287      285      290      295
289 Glu Glu Pro Tyr Leu Leu Ile Gly Glu Asn Arg Cys Met Cys Pro Ala
290      300      305      310
292 Glu His Thr Ser Cys Arg Asp Gln Pro Phe Thr Ile Leu Tyr Arg Asp
293      315      320      325
295 Met Asp Val Val Ser Gly Arg Ser Val Pro Ala Asp Ile Phe Gln Met
296 330      335      340      345
298 Gln Ala Thr Thr Arg Tyr Pro Gly Ala Tyr Tyr Ile Phe Gln Ile Lys
299      350      355      360
301 Ser Gly Asn Glu Gly Arg Glu Phe Tyr Met Arg Gln Thr Gly Pro Ile
302      365      370      375
304 Ser Ala Thr Leu Val Met Thr Arg Pro Ile Lys Gly Pro Arg Asp Ile
305      380      385      390
307 Gln Leu Asp Leu Glu Met Ile Thr Val Asn Thr Val Ile Asn Phe Arg
308      395      400      405
310 Gly Ser Ser Val Ile Arg Leu Arg Ile Tyr Val Ser Gln Tyr Pro Phe
311 410      415      420      425
315 <210> SEQ ID NO: 4
316 <211> LENGTH: 423
317 <212> TYPE: PRT
318 <213> ORGANISM: Mus musculus
320 <400> SEQUENCE: 4
321 Gln Cys Thr Asn Gly Phe Asp Leu Asp Arg Gln Ser Gly Gln Cys Leu
322 1      5      10      15
324 Asp Ile Asp Glu Cys Arg Thr Ile Pro Glu Ala Cys Arg Gly Asp Met
325      20      25      30
327 Met Cys Val Asn Gln Asn Gly Gly Tyr Leu Cys Ile Pro Arg Thr Asn
328      35      40      45
330 Pro Val Tyr Arg Gly Pro Tyr Ser Asn Pro Tyr Ser Thr Ser Tyr Ser
331      50      55      60
333 Gly Pro Tyr Pro Ala Ala Pro Pro Val Pro Ala Ser Asn Tyr Pro
334 65      70      75      80
336 Thr Ile Ser Arg Pro Leu Val Cys Arg Phe Gly Tyr Gln Met Asp Glu
337      85      90      95
339 Gly Asn Gln Cys Val Asp Val Asp Glu Cys Ala Thr Asp Ser His Gln
340      100      105      110
342 Cys Asn Pro Thr Gln Ile Cys Ile Asn Thr Glu Gly Gly Tyr Thr Cys
343      115      120      125
345 Ser Cys Thr Asp Gly Tyr Trp Leu Leu Glu Gly Gln Cys Leu Asp Ile
346      130      135      140

```

<210> 16
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 16
 cgattgaatt ctagacctgc ctgagⁿⁿⁿⁿ nnnnn

35

see
 item 10 on
 Error
 summary sheet

FYI

Please Note:
 Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/674,379

DATE: 04/25/2001

TIME: 07:41:16

Input Set : A:\es.txt

Output Set: N:\CRF3\04252001\I674379.raw

L:10 M:270 C: Current Application Number differs, Replaced Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:637 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1277 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:16
L:1277 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:16
L:1277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16